

July 18, 2006

BIONEST DISTRIBUTION, INC.
DANIEL DRISCOLL
13500 WATERTOWN PLANK RD SUITE 104
PO BOX 461
ELMGROVE WI 53122

BIONEST TECHNOLOGIES, INC.
DOMINIC MERCIER
55 12TH ST
PO BOX 697
GRAND-MERE, QC, G9T 5LA
CANADA

Re: Description: SEWAGE TREATMENT SYSTEMS, AERATED
Manufacturer: BIONEST TECHNOLOGIES, INC.
Product Name: BIONEST SYSTEM
Model Number(s): BN-400 (400 GPD)
Product File No: 20060095

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of July 2011.

This approval supersedes the approval issued on July 5, 2006, under product file number 20060095.

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20060095.

This approval is contingent upon compliance with the following stipulation(s):

- **A copy of a successful water tightness test report for the product approved under this product file number in the regarding block must be submitted to this office prior to this product being sold for installation in Wisconsin.**
- This tank must be designed to withstand the pressures to which it will be subjected.
- The manufacturer must keep at the manufacturing plant a set of plans and specifications bearing the department's stamp of approval. The plans and specifications must be open to inspection by an authorized representative of the department.
- The side opening on this product may only be used in conjunction with the pump compartment.
- This product must be installed in sewage treatment tanks approved by the Department of Commerce, Division of Safety and Buildings for use with this product.
- When this product receives wastewater from dwellings, it will produce an effluent quality with a maximum monthly average value for BOD5 of less than or equal to 30 mg/L, TSS of less than or equal to 30 mg/L TSS and F.O.G. of less than 30 mg/L and fecal coliform of less than or equal to 10,000 cfu/100ml.

- When this product receives wastewater having a geometric mean ammonia nitrogen concentration of 16 mg/L and total Kjeldahl nitrogen geometric concentration of 33.78 mg/L the effluent will have a total Kjeldahl nitrogen geometric concentration of 1.62 and a Total Organic Nitrogen geometric mean concentration of 1.39 in accordance with data contained in NSF Test report 04/10/2015/060.
- Before this product is installed a warning label meeting the requirement of Comm s. 84.25(8)(b), Wis. Admin. Code must be securely attached to the manhole cover.
- The septic tank and BIONEST BIOREACTOR must conform to the design and dimensions of the tanks that the tested NSF and BNQ approval were based on. The design of both tanks must be two compartment tanks that are within +/- 4% of the following specifications that do not specify a minimum or maximum value:
 1. The tank must have a liquid capacity of 1000 gallons;
 2. First compartment must have 2/3 volume;
 3. Second compartment must have 1/3 volume;
 4. The liquid level in the tanks must be 34 inches;
 5. An inside average liquid length of 114 inches;
 6. An inside average liquid width of 60 inches;
 7. The opening in the dividing wall must be located 17 inches off the inside bottom of the tank;
 8. Minimum 23 inches diameter opening must be located over the septic tank inlet baffle;
 9. Minimum 23 inches diameter opening must be located over the septic tank outlet baffle;
 10. Minimum 23 inches diameter opening must be located over the BIOREACTOR tank inlet baffle; and
 11. Minimum 23 inches diameter opening must be located over the BIOREACTOR tank outlet baffle.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Michael J. Beckwith, CIPE
Plumbing Product Reviewer
phone: 608-266-6742
fax: 608-267-9566
e-mail: mike.beckwith@wisconsin.gov